OIPE

RAW SEQUENCE LISTING

DATE: 06/01/2001

PATENT APPLICATION: US/09/645,415

TIME: 12:53:43

Input Set : A:\8002059a.app
Output Set: C:\CRF3\06012001\I645415.raw

		4 5	•	APPLIC.		Bern	nudes	s, G	•							Corr	ected	Dis	kette N	ee
		6		Clairm		С.							•				1			
		7		Lin, S													, L	/		
		.8.		.Belcou	r.t.,. N	1		<u> </u>									Y			
		10		TITLE										OS FO	OR	-(/	'			
		11		TUMOR-						EFF	ECTO	R MOI	LECUI	LES		<i>\</i> {\footnote{\chi}}	•			
				FILE R												. 4				
				CURREN								545,4	415							
	C>			CURREN																
				PRIOR .							07,58	31								
				PRIOR															•	
				PRIOR .							0/,6	3 /		٠.	·					
				PRIOR						-04	• • •			*						
				NUMBER SOFTWA						1		i o n = 1	o n							
				SEQ ID			י טיי	EQT V	VIIIQ(י פשנ	vers.	LOII	3.0							
				LENGTH		T											-			
				TYPE:																
				ORGANI		artif	icia	al Se	anei	nce					,					
	·			FEATUR		11 C 1 1			·quei	100										
	•	-		OTHER		RMATI	ON:	Forv	vard	prin	ner									
				SEQUEN						-					•					•
				atcttc										_	•	•			26	
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٠	•			OTHER			ON:	Reve	erse	pri	ner			1.						
				SEQUEN			•													
				atccga			ic co	eggga	aaag	gato	ctaaq	gaag	atco	2	,				4.4	
				SEQ ID																
				LENGTH TYPE:		/														
				ORGANI		Jomo	eani	ione												
				FEATUR		TOILLO	sap.	Lens							•					
				NAME/K		CDS									,	,		•		
				LOCATI			. (47	74)												
				SEQUEN			. (-	· •					,				•			
		58		gta cgt			tct	ċαc	act	cca	tcc	gat	áag	cca	att	act	cat		48	
		59		Val Arg																
		60	1	,		5		_		•	10	-	-			15				
		62	gta d	gtt gct	aac	cct	cag	gca	gaa	ggt	,cag	ctg	cag	tgg	ctg	aac	cgt		96	
		63	Val '	Val Ala		Pro	Gln	Ala	Glu	Gly	Gln	Leu	Gln	Trp	Leu	Asn	Arg			
		64			20					25				•	30			•		
		66	cgc (gct aac	gcc	ctg	ctg	gca	aac	ggc	gtt	gag	ctc	cgt	gat	aac	cag		144	
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67 68	Arg	Ala	Asn 35	Ala	Leu	Leu	Ala	Asn 40	Gly	Val	Glu	Leu	Arg 45	Asp	Asn	Gln		,
70	ctc	ata.	ata	cct	tct	daa	aat	cta	tac	cta	atc	tat	tct	caà	ata	cta		192
																		172
71	Leu	'	vaı	Pro	ser	GIU	GIA	Leu	Tyr	ьeu	тте		ser	GIN	vai	Leu		
72		50					55					60						
74	ttc	aaq	aat	caq	aac	tac	ccq	tca	act	cat	att	cta	cta	act	các	acc	•	240
75	Phe			-		-	_	_			_	_	_					
		шys.	GIY	GTII	СТУ		110	Ser	****	1113		ьеu	цеu	1111	1113	1111		
76	65					70					75.	.*				80		
78	atc .	agc	cqt	att	gct	gta	tct	tac	cag	acc	aaa	gtt	aac	ctq	ctq	agc		288
-79-	Ile																	
			9	-110-			001		· •				,	LCu.		D.C.I.		
80					85					90					95			
82	gct .																	336
83	Ala	Ile	Lvs	Ser	Pro	Cvs	Gln	Ara	Glu	Thr	Pro	Glu	Glv	Ala ·	Glu	Ala		
84				100		- -		5	105					110				
86	aaa	cca	tgg	tat	gaa	ccg	atc	tac	ctg	ggt	ggc	gta	ţtt	caa	ctg	gag		384
87	Lys	Pro	Trp	Tyr	Glu	Pro	Ile	Tyr	Leu	Gly	Gly	Val	Phe	Gln	Leu	Glu		
88	_		115	-				120		-	-		125					
																	•	
90	aaa																	432
91	Lys	Gly .	Asp	Arg	Leu	Ser	Ala	Glu	Ile	Asn	Arg	Pro	Asp	Tyr	Leu	Asp		
92		130	,				135					140				· -		2
94			~~~	+ a+	~~~	~~~			++0	~~+	a + +		~~~	بذجم			•	171
	ttc																	474
95	Phe 1	Ala	Glu	Ser	Gly.	Gln	Val	Tyr	Phe	Gly	Ile	Ile	Ala	Leu				
96	145					150					155		•					
98	taa																	477
			^															4//
	<210				,						•							
101	<211	> LE	NGTH	: 15	8 .					,			•	•				
102	<212	> TY	PE:	PRT														
	<213				Homo	ear	i and	,			4							
						Jar)	,	,	•					. *			
	.<400		_										•					
106	Met	Val	Arg	Ser	Ser	Ser	: Arç	j Thi	: Pro) Ser	: Asp	Lys	Pro	Val	. Ala	His		
107	1				5					10					15			
108	V-1	1/21	ת ד ת	7.en	Dro	Clr	. 71-	. Gl.	. G1.	, Glr	Tou	Glr	, mer	T 01	. Acr	Arg		
	vai	vai	ΑΙα		LEIC	GII	r virc	GIL		, 911	. neu	GII	1 111		i voi	LALG		
109				20					25					. 30			•	
110	Arg	Ala	Asn	Ala	Let	Leu	ı Ala	ı Asr	ı Gly	/ Val	. Glu	Let	Arc	Asp	Asr	Gln		
111	-		35					40	-				45	-				
	7	77- 1		D							- - 1-	m				T		
112	Leu		vaı	Pro) Ser	GIU	т ст2	, тег	ı Tyr	тet	тте	Tyr	ser	GII	ıvaı	Leu		
113		50					55					60						
114	Phe	Lvs	Glv	Gln	GIV	Cvs	Pro	Ser	Thr	· His	. Val	Lei	Lei	Thr	His	Thr		
		Lys	019	Q111	. 017		,	, 501										
115						70	_	_			75			_	_	80		
116	Ile	Ser	Arg	· Ile	: Ala	. Val	. Ser	: Туі	: Glr	ı Thr	: Lys	Val	. Asr	Let	ı Let	ı Ser		
117					85					90					95			
118	Δla	Tla	Tue	Sar	Dro	Cve	. Glr	Arc	r (3)	n The	Pro	Gli	പ്രവ	, Al=	G11	ı Ala		
	лта	116	цуз			, суз	, 611	LAL				, Oit	Y OLY			. AIG		
119				100					105					.110				*
			_	_	~ 1	Dro	1 T l e	TVI	Leu	ı Glv	/ Gly	' Val	Phe	Glr	Let	ıGlu		•
	Lys	Pro	Trp	Tyr	GIU	LET	,											
120	Lys	Pro		_	. GIU	LIC	, 110	_			_							
120 121	_		115	_				120)	_	_	Dwi-	125	•				
120 121 122	_	Gly	115 Asp	_			: Ala	120 Glu)	_	_		125 Asp	•		a Asp		
120 121	_		115 Asp	_				120 Glu)	_	_	Pro 140	125 Asp	•				
120 121 122 123	Lys	Gly 130	115 Asp	Arg	Leu	Ser	: Ala	120 1 Glu) 1 Ile	e Asr	a Arg	140	125 Asp	Tyr	Leu			
120 121 122	Lys Phe	Gly 130 Ala	115 Asp	Arg	Leu	Ser	Ala 135 Val	120 1 Glu) 1 Ile	e Asr	_	140 : Ile	125 Asp	Tyr	Leu			





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	<220					•												
133	<223	OTI	HER :	INFO	RMAT:	ION:	For	ward	pri	ner	.,				*			
135	<400	> SE(QUEN	CE:	5		•											,
136	ccga	acgc	gtt (gaca	cctg	aa aa	actg	gag										28
	<210																	
139-	<211	> LE	NGTH	:29						مهمس سد								
140	<212	YYI	PÉ: I	DNA	•									•		٠		
. 141	<213	> ORG	GANIS	SM: Z	Arti:	ficia	al Se	eque	nce						,			
143	<220	> FE	ATURI	Ξ:														
144	<223	> OTI	HER :	INFO	RMAT	ION:	Rev	erse	prin	ner								
	<400							+	-									
147	ccqa	aćgco	gtg a	aaag	gatci	tc aa	agaa	gatc										29
149	<210						_											
	<211					*	,											
151	<212	> TY	PE: [ANC														
	<213				Arti:	ficia	al S	eque	nce									, •
	<220				,			•				,				•		
	<223				RMAT	ION:	Fus	ion (const	truct	_			•	100			
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	<222					(5	40)		•					÷			•	
	<400>					, , -											•	
161			_			atc	aca	att	gca	ata	dca	cta	act	aat	ttd	det	• '	48
	Met																	
	. 1	-,-	_						-									
165		αta	aca	caq					cgt							tcc	•	96
	Thr																	
167				20		,			25				9	30				
169	gat	aaσ	cca		act	cat	gta	att	gct	aac	cct	cag	σca		aat	caσ		144
170																Gln		
171			35					40			,		45			•	,	
173	ctd	cad		cta	aac	cat	cac		aac	acc	cta	ctá		aac	aac	att		192
174									Asn									
175		50	_			5	55					60			1			
177	gág			gat	aac	caq		ata	gta	cct	tet			cta	tác	cta		240
178									Val									
179	65		****	1100		70					75	0	0_1		-] -	80		
181		tat	tct	саа	αt a		ttc	aaσ	ggt	cad		tac	cca	tca	act	*		288
182									Gly								.:	200
183	110	- y -	501	0111	85	пси	1	טעם	017	90	013	Cyc		001	95			
185	att	cta	cta	act		acc	atc	add	cgt		act	αta	tct	tac		acc		336
186									Arg									000
187	- 41			100	,			~~-	105					110				
189	aaa	att	aac		cta	age	act	atc	aag		cca	tac	cag		αаа	act		384
190		_		-	_		_		Lys		_	_	_	-				
191	2,0		115	204	200			120	_, _			-,-	125	9				,
													-20					

432

480

528





RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/645,415

DATE: 06/01/2001 TIME: 12:53:43

Input Set : A:\8002059a.app

Output Set: C:\CRF3\06012001\1645415.raw

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	195		130		•			135					140					
	197			ttt														
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	199	145					150					155					160	
	201			gac														
	202	Arg	Pro	Asp	Tyr	Leu	Asp	Phe	Ala _.	Glu	Ser	Gly	Gln	Val	Tyr	Phe	Gly	
	203			•		165					170			•		175		
	205			gcā		taa												
	206	Ile	Ile	Ala														
	207	.010.			180						1		,					
		<210														•		
		<2112) 												
		<212				\ +		. 1 . 0 .			7	,				` .	11	
		<213 <220				ALCII	LICI	1T 26	quer	ice			<u></u>	10	0 -	den	_ //	Ó
`	,	<223				ЭΜΆΠΊ	ron.						//	برر	X /~	,	7	
,		400																
•	216			Lys			Ile	Ala	Ile	Ala	Val	Ala	Leu	Ala	Glv	Phe	Ala	
	217	1	-1			5					10				1	15		:
	218	Thr	Val	Ala	Gln	Ala	His	Met	Val	Arg	Ser	Ser	Ser	Arg	Thr	Pro	Ser	
	219				20				•	25					30			
•	220	Asp	Lys	Pro	Val	Ala	His	Val	Val	Àla	Asn	Pro.	Gln	Ala	Glu	Gly	Gln	1,
	221			35					40		•			45.			•	
	222	Leu	Gln	Trp	Leu	Asn	Arg	Arg	Ala	Asn	Ala	Leu	Leu	Ala	Asn	Gly	Val	
	223		50		:			55					60					
	224		Leu	Arg	Asp	Asn		Leu	Val	Val	Pro		Glu	Gly	Leu	Tyr		
	225	65	,	_		•	70					75	-	_	2		80	
	226	Ile	Tyr	Ser	Gln		Leu	Phe	Lys	Gly		Gly	Cys	Pro	Ser		His	
	227	** - 1	.	*	m 1	85	m\	T1-	Ġ	7 :	90	n 1 ≟	77 - 7	G	m	95	m\	
	228 229	var	ьeu	ьeu	100	HIS	Int	тте	ser	105	тте	Ата	vaı	ser	1yr 110	GIU	Thr	
	230	Tue	Ma l	Asn		LOU	Sor	Δla	·T1_		Sar	Pro	Cve	Gln		Glu	Thr	
	231	цуз	vair	115	пец	пец	Der	ALG	120	цуз	DCI	110	Cys	125	my	OIU	1111	
	232	Pro	Glu	Gly	Ala	Glu	Ala	Lvs		Trp	Tvr	Glu	Pro		Tvr	Leu	Glv	
-	233		130	017	1.11.0	014		135		11.0	- 1 -	0_0	140		- 4		027	
	234	Glv		Phe	Gln	Leu	Glu		Glv	Asp	Arq	Leu		Ala	Glu	Ile	Asn	
	235	145			-		150	_1 -	4			155					160	
	236	Arq	Pro	Asp	Tyr	Leu	Asp	Phe	Ala	Glu	Ser	Gly	Gln	Val	Tyr	Phe	Gly	
	237	_		•	-	165	-				170	_			-;		_	
	238	Ile	Ile	Ala	Leu										•			
	239			*	180									,				
	•	<210												1				
		<2112				L .												•
		<212						, -		:								
		<213				Artii	ricia	al Se	equer	nce								-
	246	<220	> FE/	ATURI	<u>ن</u> :											•		

Please Not :

Use f n and/or Xaa have been detected in the Sequence Listing. Please review the Sequenc Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

247 <223> OTHER INFORMATION: Fusion construct





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253			aag														*	48
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255	1				5					10					15			
257		-	gcg	_	_		_	-			_	_	-	_	_	_		96
258	Thr	Val	Ala		Ala	His	Met	Ala		Glu	Ļеu	ьуs	GIn		GIn	Asp		
259	-:		· 	20			1_1		25		<u></u>			30				111
261 262			Ser													.agt		144
263	гур	тÀт	35	пуз	Ser	GTA	116	40	Cys	rne	пец	цуз	45	лэр	nsp.	Set		
265	tat	.taa	gac	adá	aat	gac	паа		agt	ato	aac	agc		tac	taa	caa		192
266			Asp															
267	- 1 -	50	<u>F</u> -				55					60		- 4 -			•	
269	gtc	aag	tgg	caa,	ctc	cgt	cag	ctc	gtt	aga	aag	atg	att	ttg	aga	acc		240
270			Trp															
271	65	_			•	70					75	:				80		
: 273			gaa															288
274	Ser	Glu	Glu	Thr		Ser	Thr	Val	Gln		Lys	Gln	Glņ	Asn		Ser		•
275				í	85					90					95			
277			ġtg															336
278	Pro	Leu	Val	_	GLu	Arg	GLY	Pro		Arg	Val	Ата	Ala			Thr		
279 281			aga	100			226	202	105	+ 0+	+ 0+		220	110		2 2 t		384
282			Arg		_	_			_						-			304
283	Gry	1.111	115	OLY	Arg	DCI	71511	120	пси	D.C.I	501	110	125		цуо	11011		
285	σaá	aaσ	gct	cta	aac	cac	aaa		aac	tcc	taa	gaa	-	tca	agg.	agt		432
286			Ála															
287		130					135					140			, -			
289			tca															480
. 290		His	Ser	Phe	Leu		Asn	Leu	His	Leu		Asn	Gly	Glu	Leu			
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293			gaa															. 528
294	TTE	His	Glu	Lys		Phe	Tyr	Tyr	тте		Ser	GIn	Thr	Tyr		Arg		
295 297		~~~	gag	~~~	165		~~~	220	202	170	220		222	C 2 2	175	ata		576
298		_	Glu	-			-			_								. 570
299	LIIC	0111	Olu	180	110	БуЗ	Olu	7.511	185	цу	11011	nop.	Lys	190	1100	• • • •		
301	caa	tat	att		aaa	tac	aca	agt		cct	qac	cct	ata		ttq	atq		624
302			Ile															
303		-	195		-	-		200			_		205					
305			gct															672
306	Lys	Ser	Ala	Arg	Asn	Ser		Trp	Ser	Lys	Asp		Glu	Tyr	Gly	Leu		
307		210					215					220					, ,	
309			atc															720
310	_	Ser	Ile	Tyr	GIn	_	GTA	тте	Phe	GLu		гàг	GIU	Asn	Asp			
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313	att	LCC	gtt	LCT	gta	aca	aat	yag	Cac	ctg	ald	yac	arcy	yac	Cal	yaa		, 00